

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW INTERCONNECTED HAZARD IDENTIFICATION BEACON IN THE WESTBOUND DIRECTION ON MD 140 FOR THE INTERSECTION OF MD 140 AND GORES MILL ROAD IN BALTIMORE COUNTY. MD 140 IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION.

INTERSECTION OPERATION

THE EXISTING INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE. NO LEFT TURNS ARE PERMITTED ALONG MD 140.

CONTROLLER REQUIREMENTS

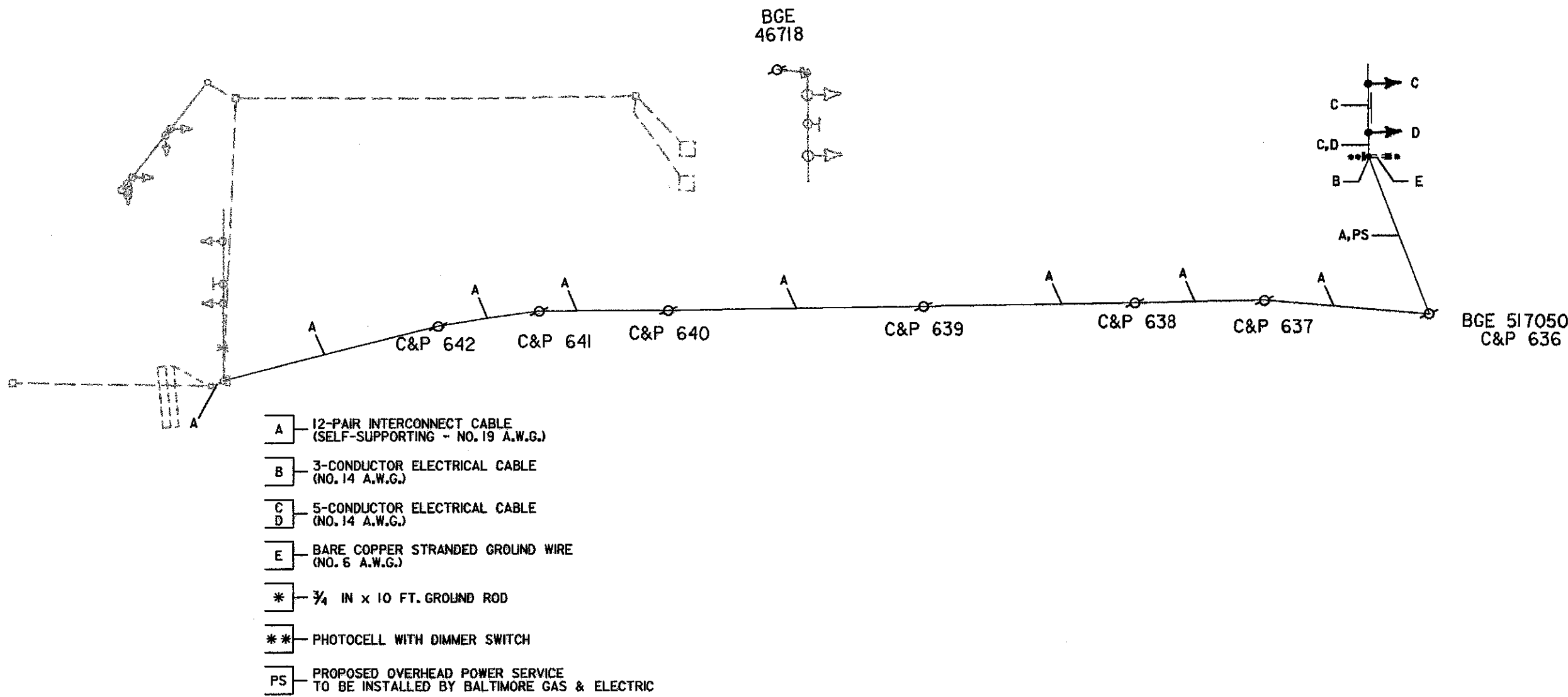
THE EXISTING MAIN CONTROLLER, LOOP DETECTOR AMPLIFIERS, AND ASSOCIATED HARNESSSES WILL REMAIN AT THE INTERSECTION OF MD 140 AND GORES MILL ROAD. INSTALL A TWO-CIRCUIT FLASHER, ASSOCIATED HARNESSSES AND A RELAY PACKAGE IN A TYPE G CABINET AT THE PROPOSED HIB LOCATION.

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NUMBER	QUANTITY	DESCRIPTION
9000	1 EA.	FURNISH HIB AND INSTALL RELAY PACKAGE FOR NEW HIB
9000	1 EA.	FURNISH HIB RELAY PACKAGE (** TO BE INSTALLED BY SHA AT GORES MILL ROAD**)
9012	1 EA.	TWO CIRCUIT FLASHER
9032	1 EA.	SINGLE MAST ARM POLE 27 FT. WITH ANCHOR BOLTS AND 70 FT. MAST ARM
9037	1 EA.	CABINET "G" TYPE POLE MT.
9504	66 S.F.	SHEET ALUMINUM SIGN CONSISTING OF THE FOLLOWING: - W3-3(2) SIGN (120 IN. x 60 IN.) MAST ARM MOUNT - W3-3 SIGN (48 IN. x 48 IN.) POLE MOUNT

WIRING LEGEND




EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NUMBER	QUANTITY	DESCRIPTION
2002	2 C.Y.	TEST PIT EXCAVATION
6006	16 EA.	FURNISH AND INSTALL TRAFFIC BARRIER W-BEAM POST NORMAL 6 FOOT LENGTH
8006	1 EA.	CUT, CLEAN AND CAP TRAFFIC SIGNAL STRUCTURE
8011	2 EA.	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8020	1 EA.	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT FOR SIGNAL
8031	1 EA.	FURNISH AND INSTALL PHOTO CELL
8039	1 EA.	INSTALL STEEL POLE AND SINGLE MAST ARM
8048	1 EA.	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
8054	2,000 L.F.	FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE (NO.19 A.W.G.) SELF - SUPPORTING (OVERHEAD)
8057	5 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8060	135 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8072	1 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8075	66 S.F.	INSTALL OVERHEAD SIGN
8080	3 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
8083	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO.14 A.W.G.)
8084	100 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 A.W.G.)
8091	25 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
8092	1 EA.	INSTALL CONTROLLER AND CABINET, POLE MOUNT

PHASE CHART


	1	2	3	4	5	6	7	8	
	①	①	② ③ ④	② ③ ④	② ③ ④	② ③ ④	② ③ ④	② ③ ④	
PHASE 2 + 6	OUT	OUT	G	G	G	G	R	R	→
PHASE 2 + 6 PRE-CHANGE	FL/Y	FL/Y	G	G	G	G	R	R	→
PHASE 2 + 6 CHANGE	FL/Y	FL/Y	Y	Y	Y	Y	R	R	→
PHASE 4	FL/Y	FL/Y	R	R	R	R	G	G	→
PHASE 4 CHANGE	FL/Y	FL/Y	R	R	R	R	Y	Y	→
FLASHING OPERATION	OUT	OUT	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	→



STV Incorporated

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REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
MD 140 / GORES MILL ROAD

DRAWN BY: B. BIDDLE	F.A.P. NO. XX 1065385	SEE TITLE SHEET	TS NO. 3628-BX
CHECKED BY: M. STORCK	S.H.A. NO.		
SCALE: NONE	COUNTY: BALTIMORE		T.I.M.S. NO. E-729
DATE: OCTOBER 28, 2002	LOG MILE: 0314001.39		

SP-3

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SHEET NO.